



Please Contact us:  
Egyptian Hydraulic Engineering  
Tel.: 02-24501890  
Fax.: 02-24501892  
info@ehehydraulic.com

Tool changer

Indexing of spindle

Weight compensation

Hatch moving

Hydraulic power pack

Work piece clamping

Axis/turret head clamping

Tool clamping

Tailstock moving

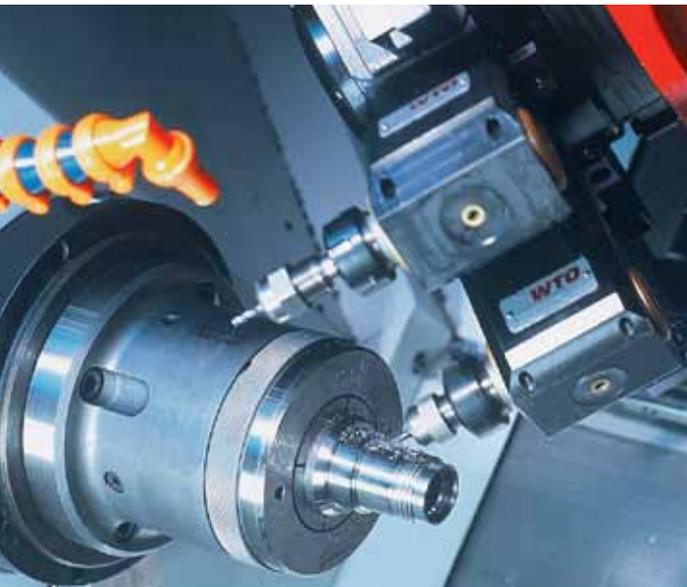
## For smooth operations.

Precision and reliability are crucial when it comes to machine tools. There's no need to worry when you have HAWE Hydraulik on your side – your competent partner for state-of-the-art, efficient and long-lasting hydraulic solutions.

Solutions for a World under Pressure **HAWE**  
HYDRAULIK

## **HAWE Hydraulik: Ideas to propel your success.**

### **High pressure makes the most of your machine tools.**



High pressure hydraulics is particularly beneficial for machine tools. Its high power density, dynamic performance, repeatability and precision positioning make it perfect for 24/7 premium quality machining. An additional advantage is the total cost of ownership, i.e. minimum power consumption, long-lasting design and low maintenance of the hydraulic components which will impress you over the long term.

Customer requirements which our compact and efficient hydraulic solutions can meet:

- low power consumption
- modern machine design
- high level of flexibility
- straightforward initial operation
- flawless and reliable operation

### **HAWE Hydraulik: Conserving resources is important to us.**

HAWE Hydraulik's solutions will save you and your customers energy, time and space. The building blocks consist of proven, state-of-the-art HAWE components which can be easily combined to exactly meet your requirements. We will provide you with a tailor-made plug&play solution which can be positioned comfortably inside the machine housing. This way you can significantly save effort and costs for product development and putting machinery into service. When your customers require flexibility, HAWE Hydraulik is the perfect choice.

You will save energy and space through:

- Intermittent service of the hydraulic pumps
- Accumulator charging operation with idle pump circulation
- Dual stage pumps (rapid traverse and creeping)
- Zero leakage due to seated valve technology
- 8 Watt technology

All this leads to clean machine design, straight forward operation and satisfied customers.

### **Together we can make a difference.**

HAWE Hydraulik is your experienced partner for lathes, milling/grinding machines and machining centers. Sustained production is part of our philosophy. Your machines can gain reliability, machining quality and efficiency via our clever and compact solutions.



**Please Contact us:**  
**Egyptian Hydraulic Engineering**  
**Tel.: 02-24501890**  
**Fax.: 02-24501892**  
**info@ehydraulic.com**

## All that matters - Quality and Efficiency

Compact and coordinated products with state-of-the-art design: clever hydraulic solutions generated from our modular system together with matching electronics offer you maximum flexibility and significant financial benefits. Examples from our product range:



### Compact hydraulic power pack type KA:

Hydraulic pump, fluid-immersed motor and blower combined as one unit to save space. Vertical or horizontal versions available. Electrical connection via HARTING plug (IP 65) available. Zero-leakage seated valve bank mounted either directly at the power pack or installed remotely.

- Oper. pressure ( $p_{max}$ ): 700 bar (High pressure) resp. 200 bar (Low pressure)
- Max. flow ( $Q_{max}$ ): 7 lpm (High pressure) resp. 18 lpm (Low pressure)



### Compact hydraulic power pack type HK:

Suited for intermittent or permanent operation. Optional accumulator charging operation enables smaller consumers to be fed via the accumulator without starting the pump. This solution together with 8-Watt technology is extremely efficient. The photo shows an example with two connection pedestals.

- Oper. pressure ( $p_{max}$ ): 700 bar (High pressure) resp. 170 bar (Low pressure)
- Max. flow ( $Q_{max}$ ): 13 lpm (High pressure) resp. 24 lpm (Low pressure)



### Compact hydraulic power pack type MPN:

This power pack is suited for high flow requirements and features corresponding tank size. A dual-stage version is available for applications where rapid traverse/creeping is required. This option is available for all these power packs.

- Oper. pressure ( $p_{max}$ ): 700 bar (High pressure) resp. 220 bar (Low pressure)
- Max. flow ( $Q_{max}$ ): 25 lpm (High pressure) resp. 135 lpm (Low pressure)



### Clamping module type NSMD:

Clever valve combination with directional spool valve, pressure-reducing valve with tracked pressure switch. It is intended for the electro-proportional adjustment of the clamping pressure at circuits with consumers showing permanent leakage, e.g. lathe chuck.

- Oper. pressure ( $p_{max}$ ): 120 bar
- Max. flow ( $Q_{max}$ ): 25 lpm



**Please Contact us:**  
**Egyptian Hydraulic Engineering**  
Tel.: 02-24501890  
Fax.: 02-24501892  
info@ehehydraulic.com



**Please Contact us:**  
**Egyptian Hydraulic Engineering**  
Tel.: 02-24501890  
Fax.: 02-24501892  
info@ehydraulic.com

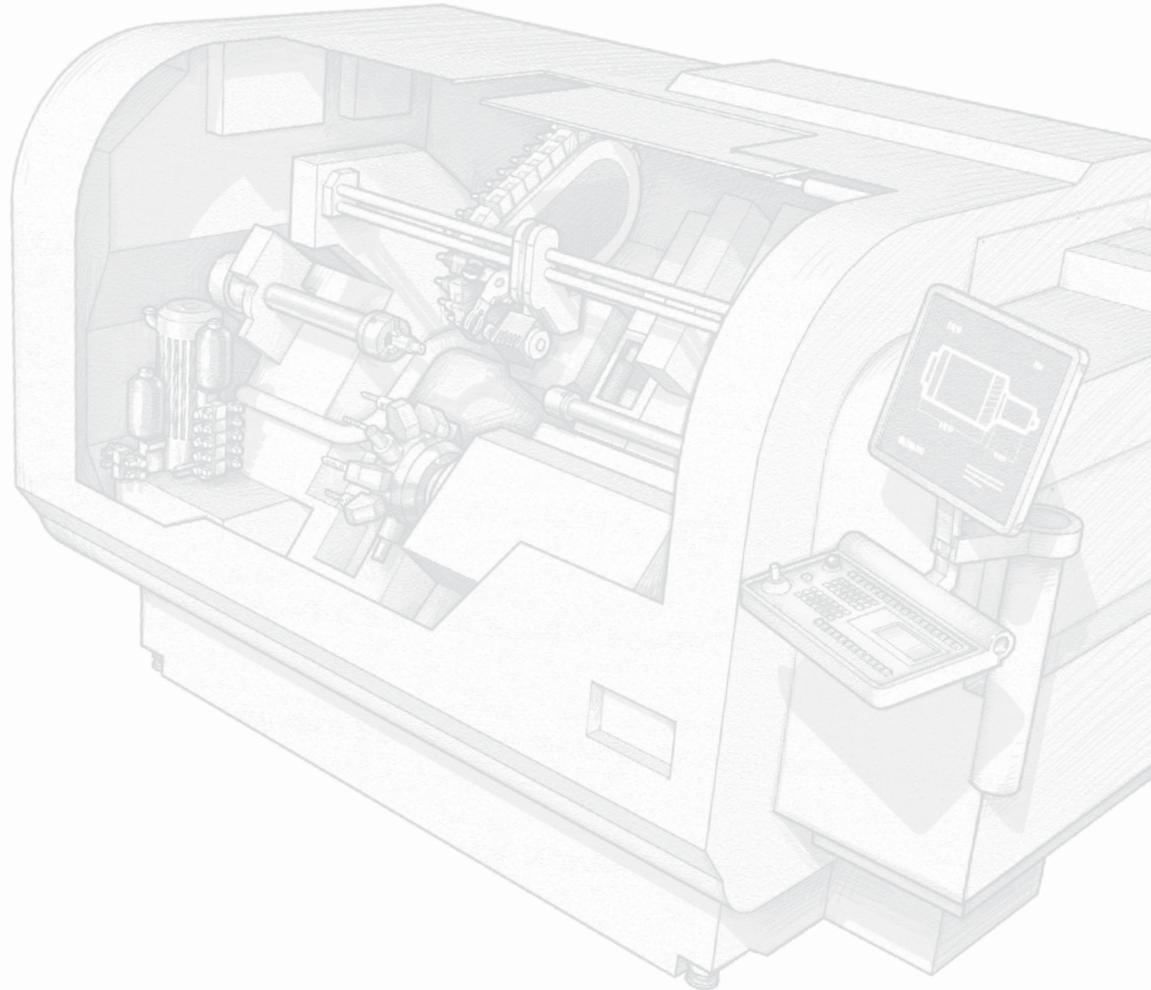
## Service worldwide.

With five sales offices in Germany, 14 subsidiaries worldwide and more than 30 expert partner companies, HAWE Hydraulik is bound to have a presence in your area.

HAWE Hydraulik offers the following benefits:

- Comprehensive individual advice and assistance
- Customized solutions
- Products designed and manufactured using state-of-the-art technology
- Many years of experience and expertise in hydraulic products and their uses
- Tailored service and maintenance contracts
- Layout, set-up and maintenance/service on-site

If you have any questions, please get in touch. Our experts are always happy to help.



**HAWE Hydraulik SE**  
**Streitfeldstr. 25**  
**81673 Munich**  
**Germany**  
Tel. +49 89 379 100-0  
Fax +49 89 379 100-1269  
info@hawe.de  
www.hawe.de

Solutions for a World under Pressure

**HAWE**  
HYDRAULIK